

# DH-PTZ12248V-LR8-N

2MP 48x Network Laser IR Positioning System



- · 1/1.9" 2Megapixel CMOS
- · Powerful 48x optical zoom
- · Starlight technology
- · Support Triple-stream encoding
- Max. 50/60fps@1080P
- · Auto-tracking and IVS
- · IR Distance up to 1200m
- · IP66









#### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, this camera provides an all-in-one solution for capturing long distance video surveillance for outdoor applications. Together with infrared illumination and Starlight technology, the camera is the perfect solution for dark, lowlight applications. The series combines a day/night mechanical IR cut filter for the highest image quality in variable lighting conditions during the day, and True WDR for applications with direct sunlight or glare.

#### **Functions**

## Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

#### **Wide Dynamic Range**

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### **Auto-tracking**

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

## Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

## **PFA Technology**

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

#### Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

#### **Protection**

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

#### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification			Video		
Camera			Compression	H.265+/H.265/H.264+/H.264	
Image Sensor	1/1.9"	1/1.9" CMOS		Streaming Capability	3 Streams
Effective Pixels	1920(1	1920(H) x 1080(V), 2 Megapixels		Resolution	1080P(1920×1080)/1.3M(1280×960)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240)
RAM/ROM	RAM/ROM 1024M/128M			Main stream: 1080P/1.3M/720P(1~50/60fps)	
Scanning System Progressive		Frame Rate	Sub stream1: D1/CIF(1 ~ 25/30fps)		
Electronic Shutter Spe	Electronic Shutter Speed 1/1s~1/30,000s			Sub stream2: 1080P/1.3M/720P (1 ~ 25/30fps)	
Minimum Illuminatio	Minimum Illumination Color: 0.001Lux@F1.4; 0Lux@F1.4 (IR on)		Bit Rate Control	CBR/VBR	
S/N Ratio	More	than 55dB		Bit Rate	H.265/H.264: 448K ~ 8192Kbps
IR Distance	Distan	ce up to 1200m(3937ft	:)	Day/Night	Auto(ICR) / Color / B/W
IR On/Off Control	Auto/I	Manual		Backlight Compensation	BLC / HLC / WDR (120dB)
IR LEDs	Laser	module		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Lens				Gain Control	Auto / Manual
Focal Length	5.7mn	1~275mm		Noise Reduction	Ultra DNR (2D/3D)
Max. Aperture	F1.4~	F4.5		Motion Detection	Support
Angle of View	H: 64.	H: 64.55° ~ 1.5°		Region of Interest	Support
Optical Zoom	Optical Zoom 48x			Electronic Image Stabilization (EIS)	Support
Focus Control Auto/Manual		Manual		Defog	Support
Close Focus Distance	100mi	m~ 1000mm		Digital Zoom	16x
DORI Distance				Flip	180°
*Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the		Privacy Masking	Up to 24 areas		
•	bserve, Recognize and	•		Audio	
Detect	Observe	Recognize	Identify	Compression	G.711a/G.711Mu/AAC/G.722 / G.726/MPEG2-L2
2731m(8960ft)	1092m(3583ft)	546m(1791ft)	273m(896ft)	Network	
PTZ				Ethernet	RJ-45 (100Base-TX/1000Base-T)
Pan/Tilt Range	Pan: 0	Pan: 0° ~ 360° endless; Tilt: -90° ~ 45°			IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP,
Manual Control Spee	ed Pan: 0	.1° ~160° /s; Tilt: 0.1° ~	60° /s	Protocol	ICMP,IGMP,SNMP,RTSP,RTP, SMTP, NTP,DHCP, DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x
Preset Speed	Pan:16	Pan:160° /s; Tilt: 60° /s		Interoperability	ONVIF, PSIA, CGI
Presets 300		300		Streaming Method	Unicast / Multicast
PTZ Mode 5 P		5 Pattern, 8 Tour, Auto Pan ,Auto Scan		Max. User Access	20 users
		Human-oriented focal Length/ speed adaptation		Edge Storage	NAS (Network Attached Storage),Local PC for instant recording, Micro SD card 128GB
Power up Action		Auto restore to previous PTZ and lens status after power failure		Web Viewer	IE, Chrome, Firefox, Safari
Idle Motion		Activate Preset/ Scan/ Tour/ Pattern if there is no command in the specified period		Management Software	Smart PSS, DSS
Protocol C		DH-SD, Pelco-P/D (Auto recognition)		Smart Phone	IOS, Android
Intelligence		Certifications			
Auto Tracking		Support		Certifications	CE: EN55032/EN55024/EN50130-4
		Tripwire, Intrusion, Abandoned/Missing, Face Detection, Heat Map			FCC: Part15 subpartB,ANSI C63.4- 2014

## Interface

Video Interface	1 port(BNC, 1.0V[p-p], 75Ω)
RS485	1
Audio I/O	1/1
Alarm I/O	7/2

#### Electrical

Power Supply	AC24V/8A(±25%)
Power Consumption	70W, 90W (IR on)

#### **Environmental**

Operating Conditions	-40°C $^{\sim}$ 70°C (-40°F $^{\sim}$ +158°F) / Less than 95% RH	
Ingress Protection	IP66	
Vandal Resistance	N/A	

#### Construction

Casing	Metal
Dimensions	Ф252(mm) x 345 (mm) x 474 (mm)
Net Weight	15kg(33.07lb)
Gross Weight	20.5kg(45.19lb)

Ordering Information			
Туре	Part Number	Description	
	DH-PTZ12248V-LR8-N	2MP 48x Network Laser IR Positioning System, WDR, PAL	
2MP	DH-PTZ12248VN-LR8-N	2MP 48x Network Laser IR Positioning System, WDR, NTSC	
Positioning System	PTZ12248V-LR8-N	2MP 48x Network Laser IR Positioning System, WDR, PAL	
	PTZ12248VN-LR8-N	2MP 48x Network Laser IR Positioning System, WDR, NTSC	
Accession	AC24V/8A	Power Adapter	
Accessories	PFB712W	Wall Mount	

# **Accessories**

#### Included:



AC24V/8A Power Adapter

# Optional:



PFB712W Wall Mount

# Dimensions (mm)





